

Polymer claims 17-19 for m > 0

(FILE 'HOME' ENTERED AT 15:35:32 ON 09 NOV 2001)

FILE 'REGISTRY' ENTERED AT 15:35:42 ON 09 NOV 2001

L1 1388 S 30674-80-7/CRN
L2 20444 S 108-31-6/CRN
L3 56888 S 80-62-6/CRN
L4 90 S 31645-35-9/CRN
L5 10 S L1 AND L2 AND L3 AND L4
L6 19 S L1 AND L2 AND L3
L7 0 S L6 AND 3/NC
L8 20 S L1 AND L2
L9 0 S L8 AND 2/NC
L10 397 S L1 AND L3
L11 2 S L10 AND 2/NC

CH₃
 $\text{CO}_2\text{CH}_2\text{CH}_2\text{NCO}$

mal. anhydride
methyl methacrylate
9-anthrylene metac.

FILE 'CAPLUS, USPATFULL' ENTERED AT 15:39:14 ON 09 NOV 2001

L12 41 S L11

FILE 'REGISTRY' ENTERED AT 15:51:05 ON 09 NOV 2001

L13 3 S L1 AND L4
L14 0 S L13 AND 2/NC

FILE 'CAPLUS' ENTERED AT 15:52:22 ON 09 NOV 2001

L15 1 S L13

FILE 'REGISTRY' ENTERED AT 15:52:52 ON 09 NOV 2001

L16 1 S L1 AND 1/NC

FILE 'USPATFULL' ENTERED AT 15:53:45 ON 09 NOV 2001

L17 10 S L16

FILE 'REGISTRY' ENTERED AT 16:04:10 ON 09 NOV 2001

L18 3 S L1 AND L4
L19 2 S L1 AND L3 AND L4

=> s 119 and 3/nc

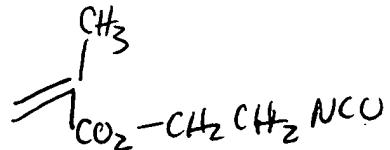
589592 3/NC

L20 0 L19 AND 3/NC

=>

Polymer
claims 17-19 for w/monomer

m > 0



PA Zumsteg, Jr., Fredrick C., Wilmington, DE, United States
E. I. Du Pont de Nemours and Company, Wilmington, DE, United States
(U.S. corporation)
PI US 5266651 19931130
AI US 1991-695379 19910503 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Schofer, Joseph L.; Assistant Examiner: Nagumo, Mark
LREP Gallegos, R. Thomas
CLMN Number of Claims: 61
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1870

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polymer reagents containing reactive functional groups are crosslinked by reacting them with compounds (crosslinking agents) which contain complimentary functional groups and have large nonlinear polarizability. The resulting polymer reagents, after poling, are useful for nonlinear optic applications. Also disclosed are the mixture which react to form the crosslinked polymer and novel crosslinking agents.

IT 100042-81-7P, Isocyanatoethylmethacrylate-methyl methacrylate copolymer

(prepn. of, for crosslinked polymer systems for nonlinear optical applications)

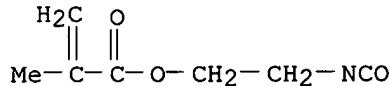
RN 100042-81-7 USPATFULL

CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 30674-80-7

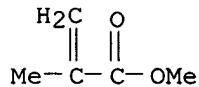
CMF C7 H9 N O3



CM 2

CRN 80-62-6

CMF C5 H8 O2

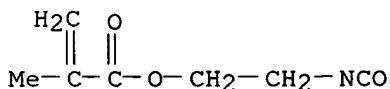


=>

L12 ANSWER 41 OF 41 USPATFULL
 AN 86:3501 USPATFULL
 TI Polymeric sensitizers for photopolymer composition
 IN Dueber, Thomas E., Wilmington, DE, United States
 Monroe, Bruce M., Wilmington, DE, United States
 PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United States
 (U.S. corporation)
 PI US 4565769 19860121
 AI US 1984-673924 19841121 (6)
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Brammer, Jack P.
 CLMN Number of Claims: 11
 ECL Exemplary Claim: 1
 DRWN 3 Drawing Figure(s); 1 Drawing Page(s)
 LN.CNT 818
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Photopolymerizable composition consisting essentially of (A) at least one ethylenically unsaturated monomeric compound, (B) at least one 2,4,5-triarylimidazolyl dimer, (C) sensitizing amount of at least one polymeric sensitizer, weight average molecular weight 10,000 to 300,000, which is the reaction product of (1) a reactive photosensitizer and (2) a reactive polymer as defined herein, and (D) optionally an organic polymeric binder. The compositions are useful in photoresists, chemical milling, toning films and printing plates.
 IT 100042-81-7DP, reaction products with
 dimethylaminophenylhydroxyethoxyphenylmethanone
 (prepn. of, for polymeric sensitizer for photopolymer compn.)
 RN 100042-81-7 USPATFULL
 CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

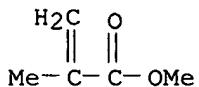
CM 1

CRN 30674-80-7
 CMF C7 H9 N O3



CM 2

CRN 80-62-6
 CMF C5 H8 O2

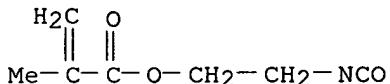


L12 ANSWER 36 OF 41 USPATFULL
 AN 91:62640 USPATFULL
 TI Method of interlaminar grafting of coatings
 IN Halpern, Gregory, Wilson Park Dr., Tarrytown, NY, United States 10591

Campbell, Charles, Highwood Pl., Alpine, NJ, United States 07620
 Beavers, Ellington M., 931 Coates Rd., Meadowbrook, PA, United States
 19046
 Chen, Huk Y., 42-01 Auburndale La., Flushing, NY, United States 11358
 PI US 5037677 19910806
 AI US 1989-436924 19891107 (7)
 DCD 20060131
 RLI Continuation of Ser. No. US 1987-34451, filed on 6 Apr 1987 which is a continuation-in-part of Ser. No. US 1984-643598, filed on 23 Aug 1984, now patented, Pat. No. US 4801475, issued on 31 Jan 1989
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Kight, III, John; Assistant Examiner:
 Hampton-Hightower, P.
 LREP Eilberg, William H.
 CLMN Number of Claims: 8
 ECL Exemplary Claim: 1
 DRWN No Drawings
 LN.CNT 329
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Interlaminar grafting of coatings, particularly grafting of a lubricious outer coating upon an anchor coating supported upon glass or plastic, for example, to provide anti-fogging or lubricating characteristics. The method is characterized by its ability to anchor permanently the highly lubricious coating to the glass or plastic.
 IT 100042-81-7
 (hydrophilic coatings for, isocyanate-crosslinked mucopolysaccharides as)
 RN 100042-81-7 USPATFULL
 CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

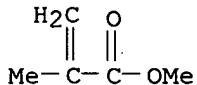
CM 1

CRN 30674-80-7
 CMF C7 H9 N O3



CM 2

CRN 80-62-6
 CMF C5 H8 O2



L12 ANSWER 35 OF 41 USPATFULL
 AN 93:100825 USPATFULL
 TI Crosslinked poled polymers for nonlinear optic applications and method of making them
 IN Foss, Robert P., Hockessin, DE, United States
 Tam, Wilson, Boothwyn, PA, United States

Homopolymer Isocyanatoethyl ester.

L43 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2001 ACS

AN 1997:574793 CAPLUS

DN 127:264290

TI Resin composition for water repellency coating.

IN Kano, Yoshinori

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 09221618 | A2 | 19970826 | JP 1996-30194 | 19960219 |
| | JP 2982677 | B2 | 19991129 | | |

AB The title compns. comprise (A) polymers of (a) 20-80% monomers contg. C-C double bond and perfluoroalkyl group, (b) 80-20% of monomers contg. C-C double bond and NCO, epoxy, methylo, N-alkoxymethyl, and/or OH group and (B) polymers of the monomer b. A copolymer of 45% CH₂:CMeCO₂CH₂CH₂(CF₂)₈F and 55% methacryloyloxyethyl isocyanate (I) and a homopolymer of I were used with dibutyltin dilaurate on glass plates.

IT 88007-27-6P

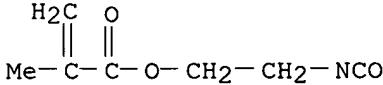
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(water-repellent coating compns. with low fluorine content and good adhesion on substrates, acid resistance and hardness)

RN 88007-27-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, homopolymer (9CI)
(CA INDEX NAME)

CM 1

CRN 30674-80-7
CME C7 H9 N O3



nomo

monomer
m

mol. wt dr.

11/93
5264667
(el 13)
Protectants

1,2,6
9

51181
Poly 8 Cal 9

4663261

5244451
5276175

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Times New Roman

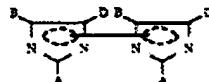
12

excluded so long as they do not prevent the benefits of the invention from being realized. Other useful additives in the photopolymerizable composition include initiators, including photoinitiators, leuco dyes, accelerators such as chain transfer agents, oxygen scavengers, and inert components, e.g., plasticizers, dyes and pigments to increase visibility of the image, etc.

The ethylenically unsaturated compound (monomer) can be present in the photopolymerizable composition in an amount of 1 to 100 parts by weight, and the organic polymeric binder can be present in an amount of 0 to 97 parts by weight based on the total weight of the monomer and binder. The 2,4,5-triarylimidazoyl dimer photoinitiator can be present in an amount of 0.01 to 20 parts by weight of the combined weight of ethylenically unsaturated compound and binder. The polymeric sensitizer can be present in the photopolymerizable composition in an amount of 0.1 to 40 percent by weight, preferably 5 to 20 percent by weight based on the total dry weight of the composition. The other additives can be present in minor amounts known to those skilled in the art.

The ethylenically unsaturated compounds (A) (photopolymerizable monomers of this invention) have a boiling point above 100° C. at normal atmospheric pressure and are capable of forming a high molecular weight polymer by photoinitiated, addition polymerization. Suitable compounds are disclosed in Chang U.S. Pat. No. 3,736,627, column 2, line 36 to column 3, line 30, the disclosure of which is incorporated herein by reference. Other useful monomers include ethylenically unsaturated diester polyhydroxy polyesters as described in Chambers U.S. Pat. No. 4,245,031. Examples include the Epoxyl® resins sold by Shell Chemical Co. Many of the polymerizable monomers are subject to thermal polymerization, especially when stored for long periods or at elevated temperatures. When such compounds are supplied commercially, it is customary for them to contain a small, but effective, amount of a thermal polymerization inhibitor. These inhibitors may be left in the monomers when the photopolymerizable coating compositions of this invention are prepared. The resulting compositions usually have satisfactory thermal stability. If unusual thermal exposure is anticipated, or if monomers containing little or no thermal polymerization inhibitor are employed, compositions with adequate shelf life can be obtained by incorporating, e.g., up to 0.3 percent by weight of monomer, of a thermal polymerization inhibitor such as hydroquinone, methylhydroquinone, p-methoxyphenol, etc. Preferred ethylenically unsaturated compounds are methylene glycol diacrylate and trimethylolpropane triacrylate.

Preferrably at least one 2,4,5-triarylimidazoyl dimer consisting of two lophine radicals bound together by a single covalent bond (photoinitiator (B)) is present in the photopolymerizable compositions. The imidazoles are photodissociable in the presence of triarylimidazoyl



wherein A, B and D represent aryl groups which can be the same or different, carbocyclic or heterocyclic, unsubstituted or substituted with substituents that do not interfere with the dissociation of the hexaarylimidazoyl radical or with the oxidation of a leuco dye that may be present and each dotted circle stands for four delocalized electrons (i.e., two conjugated double bonds) which satisfy the valences of the carbon and nitrogen atoms of the imidazoyl ring. The B and D aryl groups can each be substituted with 0-3 substituents and the A aryl groups can be substituted with 0-4 substituents. Useful 2,4,5-triarylimidazoyl dimers are disclosed in Baum and Henry U.S. Pat. No. 3,652,275, column 5, line 44 to column 7, line 16, the disclosure of which is incorporated herein by reference.

The polymeric sensitizers sensitive to ultraviolet or visible radiation (C) useful in the photopolymerizable compositions have been defined broadly above. The polymeric sensitizers are reaction products of a photoinitiator as defined above having a group which is reactive with the reactive polymer or a reactive monomer which is subsequently polymerized to yield a photosensitive polymer. In general, the sensitizer moiety can be covalently bonded to the photosensitive polymer through reactive groups present on one of the alkyl groups attached to the nitrogen atom of the sensitizer moiety or on a substituent present on the aromatic ring which is either ortho or para to the carbonyl group of the sensitizer moiety. The length of the interconnecting alkyl chains can be up to 12 carbon atoms each. The chains are preferably unbranched close to the aromatic ring of the N-atom of the sensitizer so that the planarity of the sensitizer moiety is not altered.

The weight average molecular weight range of the polymeric sensitizers can range from 10,000 to 100,000. The molecular weight can be varied depending on its use. For example, where restricted migration of the polymeric sensitizer is required, the higher molecular weight polymers are preferable.

By way of illustration but not limitation of the invention useful photosensitive polymers that can be prepared by reaction of a reactive sensitizer moiety with a reactive polymer include:

1. Copolymers of methyl methacrylate and/or methyl acrylate with isocyanatoethyl methacrylate.
2. Anhydride containing polymers such as a polymer containing maleic anhydride.
3. Transesterification with poly(methyl acrylate) or esterification of carboxylic acid-containing polymers.

The sensitizer moiety reacts with polymers 1-3.

$\text{pdI}(\text{ISOEt})_2 + \text{-MMA/mmT}$ used to make.

① Yet

344 pm

Cx Matt Yael

10/5/01

Reason for Abb 6151, 481

202-721-8203.

Comments

Sensitizer Resin -

08

L20 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2001 ACS

RN 100042-81-7 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with methyl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-isocyanatoethyl
2-methyl-2-propenoate (9CI)

OTHER NAMES:

CN 2-Isocyanatoethyl methacrylate-methyl methacrylate copolymer

CN 2-Methacryloyloxyethylisocyanate-methyl methacrylate copolymer

CN Isocyanatoethyl methacrylate-methyl methacrylate copolymer

CN Methacryloyloxyethyl isocyanate-methyl methacrylate copolymer

DR 179483-85-3, 217467-65-7, 217467-67-9

MF (C₇ H₉ N O₃ . C₅ H₈ O₂)^x

CI PMS

PCT Polyacrylic

SR CA

LC STN Files: CA, CAPLUS, CHEMLIST, TOXLIT, USPATFULL

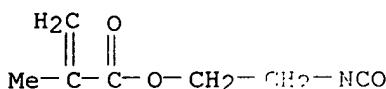
Other Sources: TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

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CRN 30674-80-7

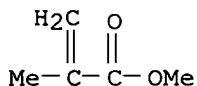
CMF C₇ H₉ N O₃



CM 2

CRN 80-62-5

CMF C₅ H₈ O₂



24 REFERENCES IN FILE CA (1967 TO DATE)

8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

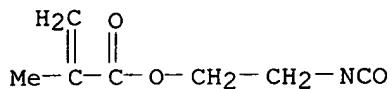
24 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN 88007-27-6 REGISTRY
CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, homopolymer (9CI)
(CA INDEX NAME)
OTHER NAMES:
CN 2-Isocyanatoethyl methacrylate homopolymer
CN 2-Methacryloyloxyethyl isocyanate homopolymer
CN Poly(2-isocyanatoethyl methacrylate)
MF (C₇ H₉ N O₃)_x
CI PMS
PCT Polyacrylic
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

CM 1

CRN 30674-80-7
CMF C₇ H₉ N O₃



28 REFERENCES IN FILE CA (1967 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
28 REFERENCES IN FILE CAPLUS (1967 TO DATE)

POLYMERS W/ ELEC SPEC.

claim 2

L1 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN 222172-97-6 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 2-[[(9-anthracylmetoxy)carbonyl]amino]ethyl ester, polymer with diethenylbenzene and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-[[(9-anthracylmetoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate and diethenylbenzene (9CI)

CN Benzene, diethenyl-, polymer with 2-[[(9-anthracylmetoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI)

MF (C₂₂ H₂₁ N O₄ . C₁₀ H₁₀ . C₅ H₈ O₂)_x

CI PMS

PCT Polyacrylic, Polystyrene

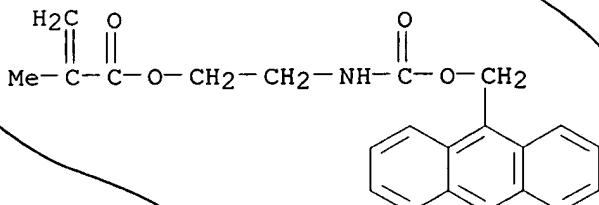
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 167859-78-1

CMF C₂₂ H₂₁ N O₄



Elec Spec. cl 2



CM 2

CRN 1321-74-0

CMF C₁₀ H₁₀

CCI IDS

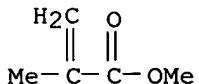


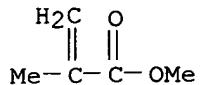
2 [D1 - CH=CH₂]

CM 3

CRN 80-62-6

CMF C₅ H₈ O₂





1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN 222032-33-9 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracylmethoxy)carbonyl]amino]ethyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-[(9-anthracylmethoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate (9CI)

MF (C22 H21 N O4 . C5 H8 O2)x

CI PMS

PCT Polyacrylic

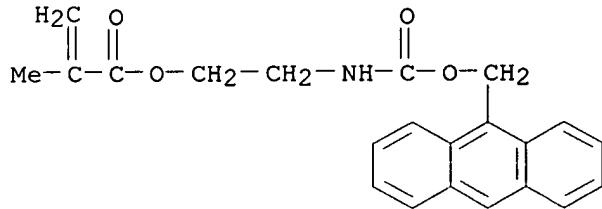
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 167859-78-1

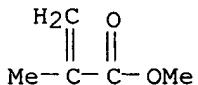
CMF C22 H21 N O4



CM 2

CRN 80-62-6

CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN 222032-31-7 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracylmethoxy)carbonyl]amino]ethyl ester, polymer with methyl 2-methyl-2-propenoate and 2-propenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

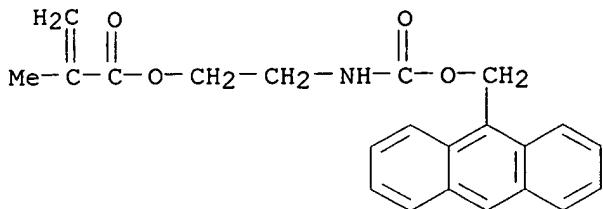
CN 2-Propenoic acid, 2-methyl-, 2-propenyl ester, polymer with 2-[(9-anthracylmethoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with

2-[(9-anthracyl methoxy) carbonyl] amino] ethyl 2-methyl-2-propenoate and
2-propenyl 2-methyl-2-propenoate (9CI)
MF (C₂₂ H₂₁ N O₄ . C₇ H₁₀ O₂ . C₅ H₈ O₂)_x
CI PMS
PCT Polyacrylic, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

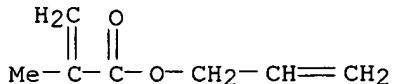
CM 1

CRN 167859-78-1
CMF C22 H21 N 04



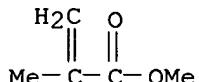
CM 2

CRN 96-05-9
CMF C7 H10 O2



CM 3

CRN 80-62-6
CMF C5 H8 02



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2001 ACS
RN 222032-29-3 REGISTRY
CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracyl methoxy) carbonyl]amino]ethyl ester, polymer with 2-propenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

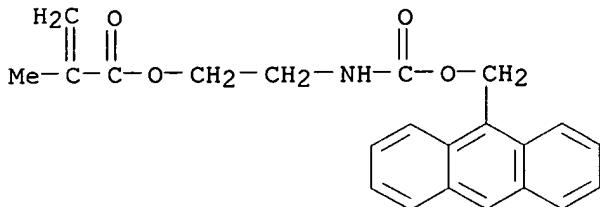
OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, 2-propenyl ester, polymer with
2-[(9-anthracynlmethoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate (9CI)
MF (C22 H21 N O4 . C7 H10 O2)x
CI PMS
PCT Polyacrylic, Polyvinyl

SR CA
LC STN Files: CA, CAPLUS

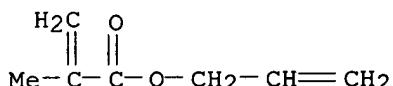
CM 1

CRN 167859-78-1
CMF C22 H21 N O4



CM 2

CRN 96-05-9
CMF C7 H10 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2001 ACS

RN 222032-28-2 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 2-[(1-anthracylaminocarbonyl)amino]ethyl ester, polymer with 2-[(9-anthracylmethoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 2-[(1-anthracylaminocarbonyl)amino]ethyl 2-methyl-2-propenoate, 2-[(9-anthracylmethoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracylmethoxy)carbonyl]amino]ethyl ester, polymer with 2-[(1-anthracylaminocarbonyl)amino]ethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with 2-[(1-anthracylaminocarbonyl)amino]ethyl 2-methyl-2-propenoate, 2-[(9-anthracylmethoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate and 2-hydroxyethyl 2-methyl-2-propenoate (9CI)

MF (C22 H21 N O4 . C21 H20 N2 O3 . C7 H10 O3 . C6 H10 O3)x

CI PMS

PCT Polyacrylic

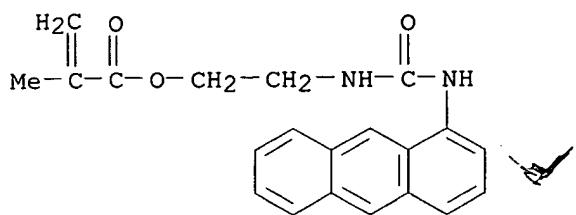
SR CA

LC STN Files: CA, CAPLUS

CM 1

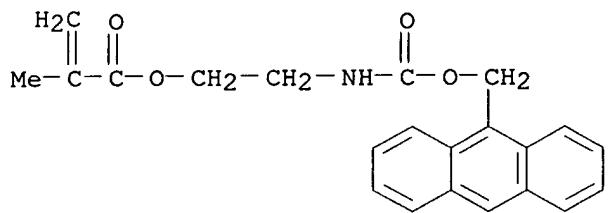
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CMF C21 H20 N2 O3



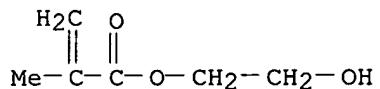
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CRN 167859-78-1
CMF C22 H21 N O4



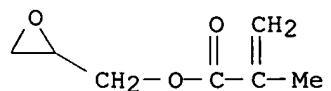
CM 3

CRN 868-77-9
CMF C6 H10 O3



CM 4

CRN 106-91-2
CMF C7 H10 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

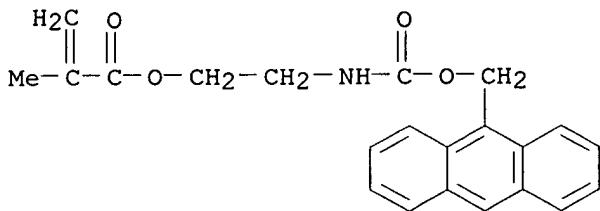
L1 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2001 ACS
RN 222032-26-0 REGISTRY
CN 2-Propenoic acid, 2-methyl-, 2-[[(9-anthracylmethoxy)carbonyl]amino]ethyl ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

OTHER OR INDEX FILES
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
2-[(9-anthracynlmethoxy)carbonyl]aminoethyl 2-methyl-2-propenoate and
oxiranylmethyl 2-methyl-2-propenoate (9CI)
CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with
2-[(9-anthracynlmethoxy)carbonyl]aminoethyl 2-methyl-2-propenoate and
2-hydroxyethyl 2-methyl-2-propenoate (9CI)
MF (C22 H21 N O4 . C7 H10 O3 . C6 H10 O3)x
CI PMS
PCT Polyacrylic
SR CA
LC STN Files: CA, CAPLUS

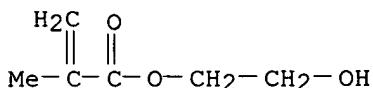
CM 1

CRN 167859-78-1
CMF C22 H21 N 04



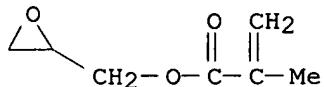
CM 2

CRN 868-77-9
CMF C6 H10 O3



CM 3

CRN 106-91-2
CMF C7 H10 O3



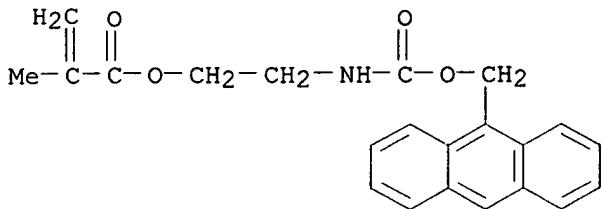
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2001 ACS
RN 222032-25-9 REGISTRY
CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracyl methoxy) carbonyl]amino]ethyl ester, polymer with oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with
 2-[(9-anthracylmetoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate (9CI)
 MF (C₂₂ H₂₁ N O₄ . C₇ H₁₀ O₃)_x
 CI PMS
 PCT Polyacrylic
 SR CA
 LC STN Files: CA, CAPLUS

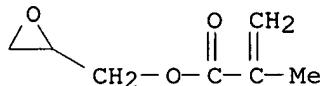
CM 1

CRN 167859-78-1
CMF C₂₂ H₂₁ N O₄



CM 2

CRN 106-91-2
CMF C₇ H₁₀ O₃



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2001 ACS
 RN 216989-14-9 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracylmetoxy)carbonyl]amino]ethyl ester, polymer with 2-isocyanatoethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

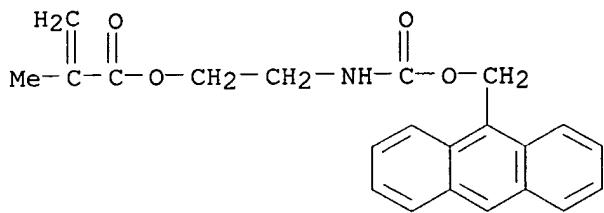
CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with 2-[(9-anthracylmetoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI)
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-[(9-anthracylmetoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate and 2-isocyanatoethyl 2-methyl-2-propenoate (9CI)

OTHER NAMES:

CN N-(2-Methacryloyloxyethyl)-9-methylantracene carbamate-methyl methacrylate-methacryloyloxyethyl isocyanate copolymer
 MF (C₂₂ H₂₁ N O₄ . C₇ H₉ N O₃ . C₅ H₈ O₂)_x
 CI PMS
 PCT Polyacrylic
 SR CA
 LC STN Files: CA, CAPLUS

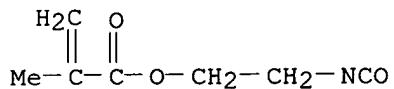
CM 1

CRN 167859-78-1
CMF C22 H21 N 04



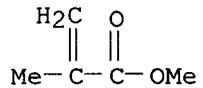
CM 2

CRN 30674-80-7
CMF C7 H9 N 03



CM 3

CRN 80-62-6
CMF C5 H8 O2

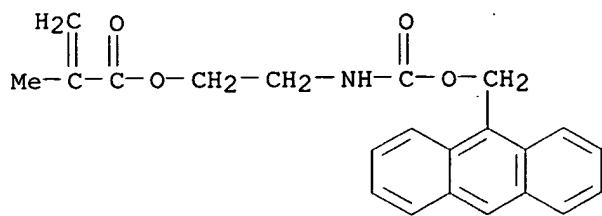


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2001 ACS
RN 216989-12-7 REGISTRY
CN 2-Propenoic acid, 2-methyl-, 2-[(acetyloxy)ethyl ester, polymer with
2-[(9-anthracylmethoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracylmethoxy)carbonyl]amino]ethy
l ester, polymer with 2-(acetyloxy)ethyl 2-methyl-2-propenoate (9CI)
OTHER NAMES:
CN N-(2-Methacryloyloxyethyl)-9-methylanthracene carbamate-2-
methacryloyloxyethyl acetate copolymer
MF (C22 H21 N 04 . C8 H12 O4)x
CI PMS
PCT Polyacrylic
SR CA
LC STN Files: CA, CAPLUS

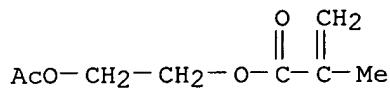
CM 1

CRN 167859-78-1
CMF C22 H21 N 04



CM 2

CRN 20166-49-8
CMF C8 H12 04

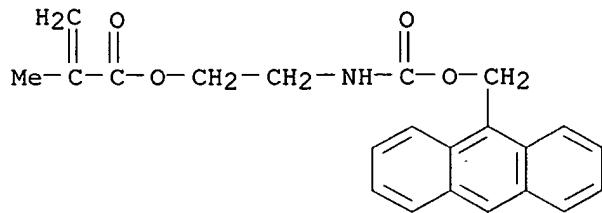


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2001 ACS
RN 167859-79-2 REGISTRY
CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracylmetoxy)carbonyl]amino]ethyl ester, homopolymer (9CI) (CA INDEX NAME)
MF (C₂₂ H₂₁ N O₄)_x
CI PMS
PCT Polyacrylic
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 167859-78-1
CMF C22 H21 N 04



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

\Rightarrow

Uploading 237c.str

Search elect spec
claim 3

L8 STRUCTURE UPLOADED

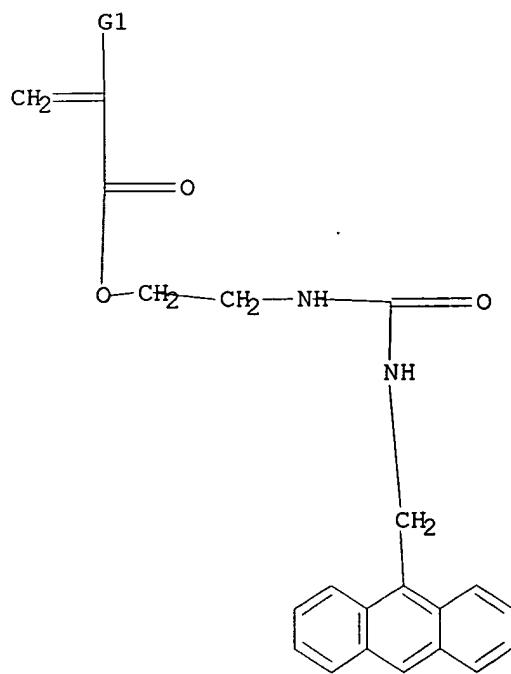
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100.0% PROCESSED 22 ITERATIONS
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0 ANSWERS

L9 0 SEA SSS FUL L8

=> d 18
L8 HAS NO ANSWERS
L8 STR



G1 H,Me

Structure attributes must be viewed using STN Express query preparation.

=>

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
AN 1998:795188 CAPLUS
DN 130:45293
TI Composition for antireflection or light absorption film and compounds for use in same
IN Padmanaban, Munirathna; Kang, Wen-bing; Tanaka, Hatsuyuki; Kimura, Ken;
Pawlowski, Georg
PA Clariant International Ltd., Switz.
SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2

DT Patent
LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-----------------------|------|----------|-----------------|----------|
| PI | WO 9854619 | A1 | 19981203 | WO 1998-JP2234 | 19980521 |
| | W: CN, JP, KR, SG, US | | | | |
| | RW: DE, FR, GB, IT | | | | |
| | EP 917002 | A1 | 19990519 | EP 1998-921751 | 19980521 |
| | R: DE, FR, GB, IT | | | | |

PRAI JP 1997-137088 19970527
WO 1998-JP2234 19980521

AB A compn. capable of forming an antireflection or light absorption film which satisfactorily absorbs radiations having wavelengths of 100 to 450 nm, is free from the diffusion of a photo-generated acid into the film or the intermixing of a resist with the film, and is excellent in storage stability and step coverage properties; and novel compds. and novel polymers useful for the compn. The compn. contains a compd. which is a (meth)acrylic monomer or polymer having at least one isocyanate or thioisocyanate group bonded to a side chain thereof through an alkylene group, etc., or contains the compd. or polymer which has an aminated or hydroxylated org. chromophore which absorbs light in the wavelength region of 100 to 450 nm and is bonded to the isocyanate or thioisocyanate group. The compn. is applied to a substrate and baked to form a film serving as, e.g., an antireflection film. A chem.-amplification-type resist is applied to this film, and the resist film is exposed to light and then developed to form a resist image with high resoln. Due to the presence of the isocyanate or thioisocyanate group in the compd., the film serving as, e.g., an antireflection film is cured through crosslinking during baking. Due to the presence of the org. chromophore, the film absorbs exposure light in the wavelength region of 100 to 450 nm.

IT 216989-14-9P, N-(2-Methacryloyloxyethyl)-9-methylanthracene carbamate-methyl methacrylate-methacryloyloxyethyl isocyanate copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(compn. for antireflection or light absorption film)

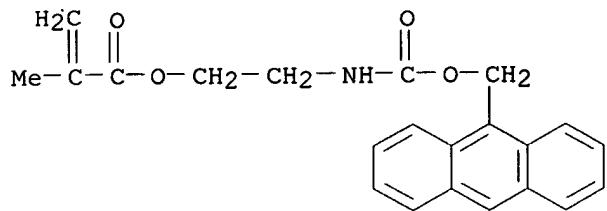
RN 216989-14-9 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[[(9-anthracynlmethoxy)carbonyl]amino]ethyl ester, polymer with 2-isocyanatoethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

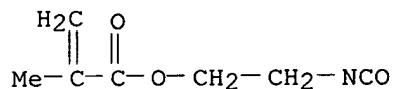
CRN 167859-78-1
CMF C22 H21 N O4

Some Inventors



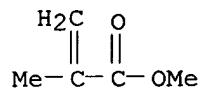
CM 2

CRN 30674-80-7
CMF C7 H9 N 03



CM 3

CRN 80-62-6
CMF C5 H8 O2

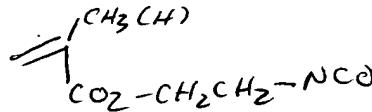


RE.CNT 25

RE

(1) E I Du Pont de Nemours & Co; EP

Polymer > WITH electrc Mm



L12 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2001 ACS
 RN 144093-51-6 REGISTRY

CN 2-Propenoic acid, ethyl ester, telomer with 2,5-furandione,
 2-isocyanatoethyl 2-propenoate and 3-(trimethoxysilyl)-1-propanethiol
 (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propanethiol, 3-(trimethoxysilyl)-, telomer with ethyl 2-propenoate,
 2,5-furandione and 2-isocyanatoethyl 2-propenoate (9CI)

CN 2,5-Furandione, telomer with ethyl 2-propenoate, 2-isocyanatoethyl
 2-propenoate and 3-(trimethoxysilyl)-1-propanethiol (9CI)

CN 2-Propenoic acid, 2-isocyanatoethyl ester, telomer with ethyl
 2-propenoate, 2,5-furandione and 3-(trimethoxysilyl)-1-propanethiol (9CI)

MF C6 H16 O3 S Si . (C6 H7 N O3 . C5 H8 O2 . C4 H2 O3)x

PCT Polyacrylic, Polyvinyl

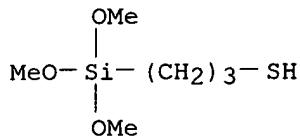
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 4420-74-0

CMF C6 H16 O3 S Si



CM 2

CRN 144093-49-2

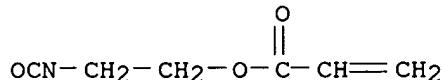
CMF (C6 H7 N O3 . C5 H8 O2 . C4 H2 O3)x

CCI PMS

CM 3

CRN 13641-96-8

CMF C6 H7 N O3



CM 4

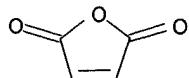
CRN 140-88-5

CMF C5 H8 O2



CM 5

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2001 ACS

RN 144093-50-5 REGISTRY

CN 2-Propenoic acid, ethyl ester, telomer with 2,5-furandione,
2-isocyanatoethyl 2-propenoate and 3-(triethoxysilyl)-1-propanethiol (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propanethiol, 3-(triethoxysilyl)-, telomer with ethyl 2-propenoate,
2,5-furandione and 2-isocyanatoethyl 2-propenoate (9CI)

CN 2,5-Furandione, telomer with ethyl 2-propenoate, 2-isocyanatoethyl
2-propenoate and 3-(triethoxysilyl)-1-propanethiol (9CI)

CN 2-Propenoic acid, 2-isocyanatoethyl ester, telomer with ethyl
2-propenoate, 2,5-furandione and 3-(triethoxysilyl)-1-propanethiol (9CI)

MF C9 H22 O3 S Si . (C6 H7 N O3 . C5 H8 O2 . C4 H2 O3)x

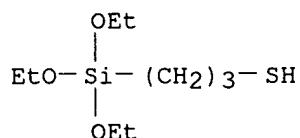
PCT Polyacrylic, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 14814-09-6
CMF C9 H22 O3 S Si

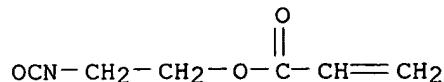


CM 2

CRN 144093-49-2
CMF (C6 H7 N O3 . C5 H8 O2 . C4 H2 O3)x
CCI PMS

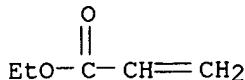
CM 3

CRN 13641-96-8
CMF C6 H7 N O3



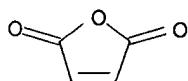
CM 4

CRN 140-88-5
CMF C5 H8 O2



CM 5

CRN 108-31-6
CMF C4 H2 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2001 ACS

RN 144093-49-2 REGISTRY

CN 2-Propenoic acid, ethyl ester, polymer with 2,5-furandione and
2-isocyanatoethyl 2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, polymer with ethyl 2-propenoate and 2-isocyanatoethyl
2-propenoate (9CI)

CN 2-Propenoic acid, 2-isocyanatoethyl ester, polymer with ethyl 2-propenoate
and 2,5-furandione (9CI)

MF (C6 H7 N O3 . C5 H8 O2 . C4 H2 O3)x

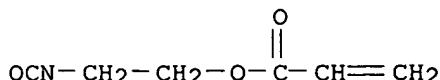
CI PMS, COM

PCT Polyacrylic, Polyvinyl

SR CA

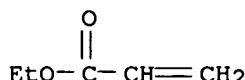
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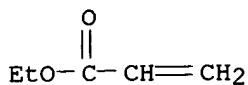
CRN 13641-96-8
CMF C6 H7 N O3



CM 2

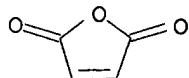
CRN 140-88-5
CMF C5 H8 O2





CM 3

CRN 108-31-6
CMF C4 H2 O3



L12 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2001 ACS

RN 144093-48-1 REGISTRY

CN 2-Propenoic acid, 2-methyl-, methyl ester, telomer with ethenylbenzene,
2-ethylhexyl 2-propenoate, ethyl 2-propenoate, 2,5-furandione,
2-isocyanatoethyl 2-propenoate and 3-(trimethoxysilyl)-1-propanethiol
(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Propanethiol, 3-(trimethoxysilyl)-, telomer with ethenylbenzene,
2-ethylhexyl 2-propenoate, ethyl 2-propenoate, 2,5-furandione,
2-isocyanatoethyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI)

CN 2,5-Furandione, telomer with ethenylbenzene, 2-ethylhexyl 2-propenoate,
ethyl 2-propenoate, 2-isocyanatoethyl 2-propenoate, methyl

2-methyl-2-propenoate and 3-(trimethoxysilyl)-1-propanethiol (9CI)

CN 2-Propenoic acid, 2-ethylhexyl ester, telomer with ethenylbenzene, ethyl
2-propenoate, 2,5-furandione, 2-isocyanatoethyl 2-propenoate, methyl
2-methyl-2-propenoate and 3-(trimethoxysilyl)-1-propanethiol (9CI)

CN 2-Propenoic acid, 2-isocyanatoethyl ester, telomer with ethenylbenzene,
2-ethylhexyl 2-propenoate, ethyl 2-propenoate, 2,5-furandione, methyl
2-methyl-2-propenoate and 3-(trimethoxysilyl)-1-propanethiol (9CI)

CN 2-Propenoic acid, ethyl ester, telomer with ethenylbenzene, 2-ethylhexyl
2-propenoate, 2,5-furandione, 2-isocyanatoethyl 2-propenoate, methyl

2-methyl-2-propenoate and 3-(trimethoxysilyl)-1-propanethiol (9CI)

CN Benzene, ethenyl-, telomer with 2-ethylhexyl 2-propenoate, ethyl
2-propenoate, 2,5-furandione, 2-isocyanatoethyl 2-propenoate, methyl
2-methyl 2-propenoate and 3-(trimethoxysilyl)-1-propanethiol (9CI)

MF (C11 H20 O2 . C8 H8 . C6 H7 N O3 . C5 H8 O2 . C5 H8 O2 . C4 H2 O3)x . C6
H16 O3 S Si

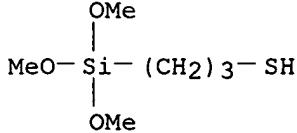
PCT Polyacrylic, Polystyrene, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 4420-74-0
CMF C6 H16 O3 S Si

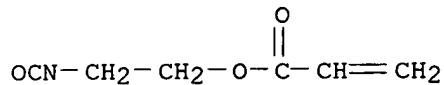


CM 2

CRN 144093-47-0
CMF (C₁₁ H₂₀ O₂ . C₈ H₈ . C₆ H₇ N O₃ . C₅ H₈ O₂ . C₅ H₈ O₂ . C₄ H₂ O₃)_x
CCI PMS

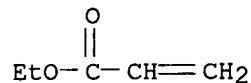
CM 3

CRN 13641-96-8
CMF C₆ H₇ N O₃



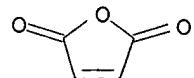
CM 4

CRN 140-88-5
CMF C₅ H₈ O₂



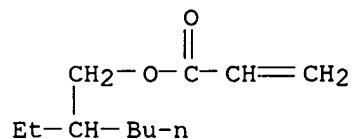
CM 5

CRN 108-31-6
CMF C₄ H₂ O₃



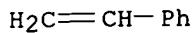
CM 6

CRN 103-11-7
CMF C₁₁ H₂₀ O₂



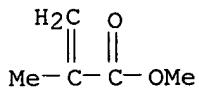
CM 7

CRN 100-42-5
CMF C₈ H₈



CM 8

CRN 80-62-6
CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2001 ACS

RN 144093-47-0 REGISTRY

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, 2,5-furandione and 2-isocyanatoethyl 2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, 2-isocyanatoethyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with ethenylbenzene, ethyl 2-propenoate, 2,5-furandione, 2-isocyanatoethyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-isocyanatoethyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, 2,5-furandione and methyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, ethyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, 2,5-furandione, 2-isocyanatoethyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI)

CN Benzene, ethenyl-, polymer with 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, 2,5-furandione, 2-isocyanatoethyl 2-propenoate and methyl 2-methyl 2-propenoate (9CI)

MF (C11 H20 O2 . C8 H8 . C6 H7 N O3 . C5 H8 O2 . C5 H8 O2 . C4 H2 O3)x

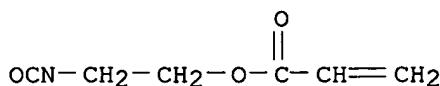
CI PMS, COM

PCT Polyacrylic, Polystyrene, Polyvinyl

SR CA

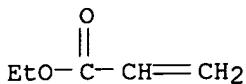
CM 1

CRN 13641-96-8
CMF C6 H7 N O3



CM 2

CRN 140-88-5
CMF C5 H8 O2



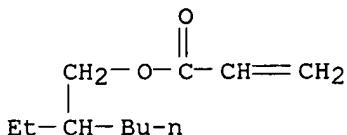
CM 3

CRN 108-31-6
CMF C4 H2 O3



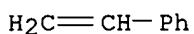
CM 4

CRN 103-11-7
CMF C11 H20 O2



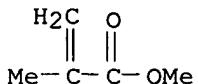
CM 5

CRN 100-42-5
CMF C8 H8



CM 6

CRN 80-62-6
CMF C5 H8 O2



L12 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2001 ACS

RN 144093-46-9 REGISTRY

CN 2-Propenoic acid, ethyl ester, telomer with 2,5-furandione,
2-isocyanatoethyl 2-propenoate, methyl 2-propenoate and
3-(trimethoxysilyl)-1-propanethiol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

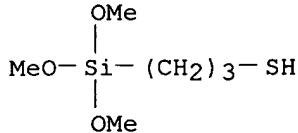
CN 1-Propanethiol, 3-(trimethoxysilyl)-, telomer with ethyl 2-propenoate,

2,5-furandione, 2-isocyanatoethyl 2-propenoate and methyl 2-propenoate
 (9CI)
 CN 2,5-Furandione, telomer with ethyl 2-propenoate, 2-isocyanatoethyl
 2-propenoate, methyl 2-propenoate and 3-(trimethoxysilyl)-1-propanethiol
 (9CI)
 CN 2-Propenoic acid, 2-isocyanatoethyl ester, telomer with ethyl
 2-propenoate, 2,5-furandione, methyl 2-propenoate and 3-(trimethoxysilyl)-
 1-propanethiol (9CI)
 CN 2-Propenoic acid, methyl ester, telomer with ethyl 2-propenoate,
 2,5-furandione, 2-isocyanatoethyl 2-propenoate and 3-(trimethoxysilyl)-1-
 propanethiol (9CI)
 MF C6 H16 O3 S Si . (C6 H7 N O3 . C5 H8 O2 . C4 H6 O2 . C4 H2 O3)x
 PCT Polyacrylic, Polyvinyl
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 4420-74-0

CMF C6 H16 O3 S Si



CM 2

CRN 144093-45-8

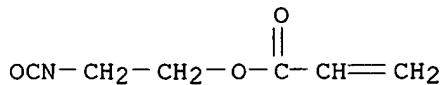
CMF (C6 H7 N O3 . C5 H8 O2 . C4 H6 O2 . C4 H2 O3)x

CCI PMS

CM 3

CRN 13641-96-8

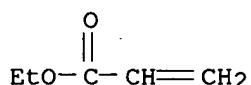
CMF C6 H7 N O3



CM 4

CRN 140-88-5

CMF C5 H8 O2



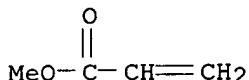
CM 5

CRN 108-31-6
CMF C4 H2 O3



CM 6

CRN 96-33-3
CMF C4 H6 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

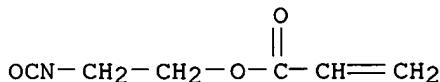
L12 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2001 ACS
RN 144093-45-8 REGISTRY
CN 2-Propenoic acid, ethyl ester, polymer with 2,5-furandione,
2-isocyanatoethyl 2-propenoate and methyl 2-propenoate (9CI) (CA INDEX
NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, polymer with ethyl 2-propenoate, 2-isocyanatoethyl
2-propenoate and methyl 2-propenoate (9CI)
CN 2-Propenoic acid, 2-isocyanatoethyl ester, polymer with ethyl
2-propenoate, 2,5-furandione and methyl 2-propenoate (9CI)
CN 2-Propenoic acid, methyl ester, polymer with ethyl 2-propenoate,
2,5-furandione and 2-isocyanatoethyl 2-propenoate (9CI)
MF (C6 H7 N O3 . C5 H8 O2 . C4 H6 O2 . C4 H2 O3)x
CI PMS, COM
PCT Polyacrylic, Polyvinyl
SR CA

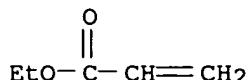
CM 1

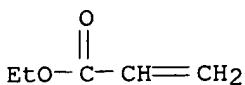
CRN 13641-96-8
CMF C6 H7 N O3



CM 2

CRN 140-88-5
CMF C5 H8 O2





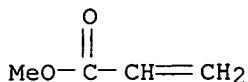
CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

CRN 96-33-3
CMF C4 H6 O2



L12 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2001 ACS

RN 139412-76-3 REGISTRY

CN 2-Propenoic acid, 2-isocyanatoethyl ester, polymer with formaldehyde,
2,5-furandione and phenol (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,5-Furandione, polymer with formaldehyde, 2-isocyanatoethyl 2-propenoate
and phenol (9CI)

CN Formaldehyde, polymer with 2,5-furandione, 2-isocyanatoethyl 2-propenoate
and phenol (9CI)

CN Phenol, polymer with formaldehyde, 2,5-furandione and 2-isocyanatoethyl
2-propenoate (9CI)

MF (C6 H7 N O3 . C6 H6 O . C4 H2 O3 . C H2 O)x

CI PMS

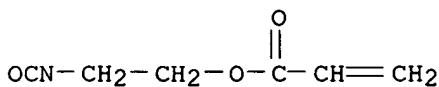
PCT Phenolic resin, Polyacrylic, Polyvinyl

SR CA

LC STN Files: CA, CAPLUS

CM 1

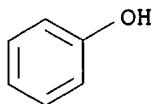
CRN 13641-96-8
CMF C6 H7 N O3



CM 2

CRN 108-95-2

CMF C6 H6 O



CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

CRN 50-00-0
CMF C H2 O

H₂C=O

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 12:54:25 ON 09 NOV 2001)

FILE 'REGISTRY' ENTERED AT 12:54:48 ON 09 NOV 2001
L1 10 S 167859-78-1/CRN
L2 1 S L1 AND 1/NC

FILE 'CAPLUS' ENTERED AT 12:55:33 ON 09 NOV 2001
L3 1 S L2

FILE 'REGISTRY' ENTERED AT 12:56:06 ON 09 NOV 2001
L4 4 S L1 AND 2/NC

FILE 'CAPLUS' ENTERED AT 12:58:17 ON 09 NOV 2001
S 222032-33-9/REG#

FILE 'REGISTRY' ENTERED AT 12:58:55 ON 09 NOV 2001
L5 1 S 222032-33-9/RN

FILE 'CAPLUS' ENTERED AT 12:58:56 ON 09 NOV 2001
L6 1 S L5

FILE 'REGISTRY' ENTERED AT 13:00:17 ON 09 NOV 2001
L7 4 S L1 AND 3/NC
L8 STRUCTURE UPLOADED
L9 0 S L8 FULL

FILE 'REGISTRY' ENTERED AT 13:14:11 ON 09 NOV 2001

L10 20444 S 108-31-6/CRN
L11 69 S 13641-96-8/CRN
L12 8 S L10 AND L11

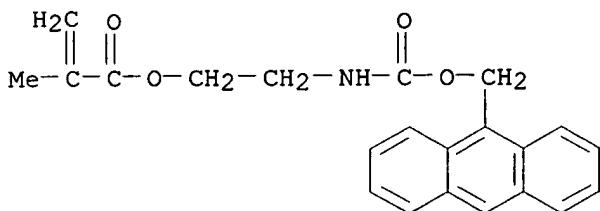
=> s l12 and 2/nc
 2566152 2/NC
L13 0 L12 AND 2/NC

L4 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2001 ACS
 RN 222032-33-9 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracylmetoxy)carbonyl]amino]ethyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-[(9-anthracylmetoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate (9CI)
 MF (C22 H21 N O4 . C5 H8 O2)x
 CI PMS
 PCT Polyacrylic
 SR CA
 LC STN Files: CA, CAPLUS

WO 99/8478 4/99

CM 1

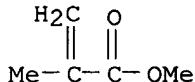
CRN 167859-78-1
CMF C22 H21 N 04



1070
n70

CM 2

CRN 80-62-6
CMF C5 H8 02



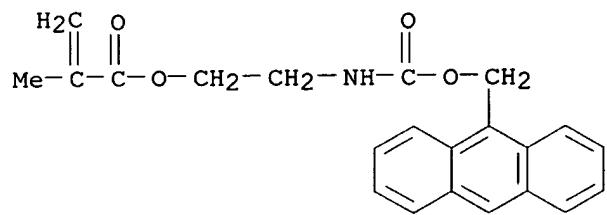
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L4 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2001 ACS
RN 222032-29-3 REGISTRY
CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracylmetoxy)carbonyl]amino]ethyl ester, polymer with 2-propenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propenoic acid, 2-methyl-, 2-propenyl ester, polymer with 2-[(9-anthracylmetoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate (9CI)
MF (C22 H21 N O4 . C7 H10 O2)x
CI PMS
PCT Polyacrylic, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS

CM 1

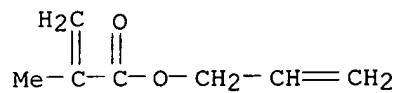
CRN 167859-78-1

CMF C22 H21 N O4



CM 2

CRN 96-05-9
CMF C7 H10 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
AN 1995:602424 CAPLUS
DN 123:170508
TI Electroluminescent polymers containing pendant electroluminescent side chains, and electroluminescent devices containing them
IN Cumming, William J.; Gaudiana, Russell A.; Ingwall, Richard T.; Kolb, Eric S.; Mehta, Parag G.; Minns, Richard A.
PA Polaroid Corp., USA
SO U.S., 13 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI US 5414069 | A | 19950509 | US 1993-12038 | 19930201 |

*Homo^(P)
Used in Reg*

oceanatoethyl 2-methyl-2-propenoate (9CI)

OTHER NAMES:

CN N-(2-Methacryloyloxyethyl)-9-methylanthracene carbamate-methyl methacrylate-methacryloyloxyethyl isocyanate copolymer

MF (C₂₂ H₂₁ N O₄ . C₇ H₉ N O₃ . C₅ H₈ O₂)_x

CI PMS

PCT Polyacrylic

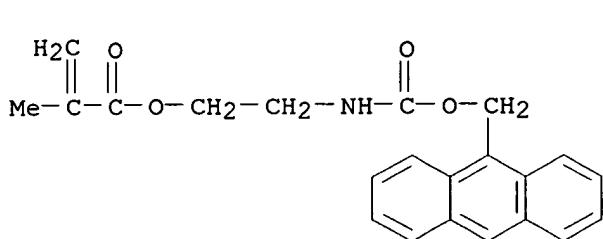
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 167859-78-1

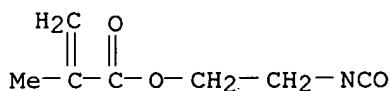
CMF C₂₂ H₂₁ N O₄



CM 2

CRN 30674-80-7

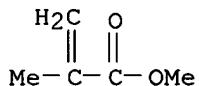
CMF C₇ H₉ N O₃



CM 3

CRN 80-62-6

CMF C₅ H₈ O₂



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L3 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2001 ACS

RN 216989-12-7 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 2-[(acetoxy)ethyl ester, polymer with 2-[(9-anthracynlmethoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, 2-[(9-anthracynlmethoxy)carbonyl]amino]ethyl ester, polymer with 2-(acetoxy)ethyl 2-methyl-2-propenoate (9CI)

OTHER NAMES:

L41 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2001 ACS

AN 1994:422534 CAPLUS

DN 121:22534

TI Alkali-developable photopolymerizable composition for manufacture of printed circuit board

IN Mori, Tooru; Matsuda, Hideki

PA Asahi Chemical Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

PI JP 05216229 A2 19930827 JP 1992-46338 19920203

AB The title compn. contains as essential components (a) a polymer having a repeating structural unit [-CH₂-C(CONH-(CH₂)_n-OCO-CR₂:CH₂)R₁-] (n = 1-20; R₁, R₂ = H, Me), a CO₂H content of an acid equiv. 200-700 (the wt. of a polymer having 1 equiv of CO₂H), and a wt. av. mol. wt. 10000-200,000 and (b) a photopolyrn. initiator(s). The compn. is very useful as a resist for manufg. printed circuit boards.

IT 155904-05-5 155904-06-6

RL: USES (Uses)
(alkali-developable photopolyrn. compn. contg.)

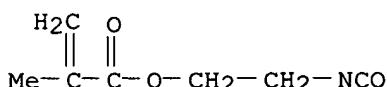
RN 155904-05-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, 2-isocyanatoethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 30674-80-7

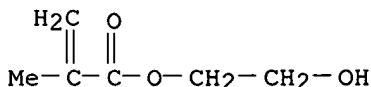
CMF C7 H9 N O3



CM 2

CRN 868-77-9

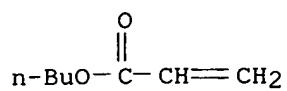
CMF C6 H10 O3



CM 3

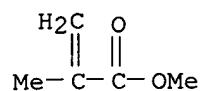
CRN 141-32-2

CMF C7 H12 O2



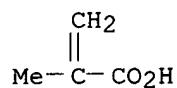
CM 4

CRN 80-62-6
CMF C5 H8 O2



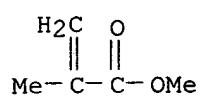
CM 5

CRN 79-41-4
CMF C4 H6 O2



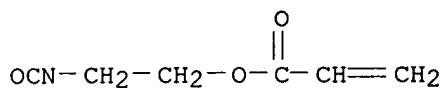
RN 155904-06-6 CAPLUS
CN

CMF C5 H8 O2



=>

L52 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN 13641-96-8 REGISTRY
CN 2-Propenoic acid, 2-isocyanatoethyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acrylic acid, 2-isocyanatoethyl ester (6CI)
CN Acrylic acid, ester with 2-hydroxyethyl isocyanate (8CI)
CN Isocyanic acid, 2-hydroxyethyl ester acrylate (ester)
OTHER NAMES:
CN 2-Isocyanatoethyl acrylate
FS 3D CONCORD
MF C6 H7 N O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, IFICDB, IFIPAT, IFIUDB,
TOXLIT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

54 REFERENCES IN FILE CA (1967 TO DATE)
25 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
54 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L60 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS

AN 1998:47847 CAPLUS

DN 128:134388

TI Photosensitive resin composition and photosensitive element using same

IN Tsukada, Katsue; Otomo, Satoshi; Watanabe, Mitsuaki

PA Hitachi Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | JP 10010725 | A2 | 19980116 | JP 1996-167463 | 19960627 |
| AB | The title compn. contains (a) a photopolymg. unsat. compd. prep'd. by the addn. reaction of .gtoreq.1 selected from o-cresol-, phenol-, and halogenated phenol-novolak-type epoxy resins with an unsatd. carboxylic acid (acid equiv/epoxy equiv ratio = 0.1-1.0) and the reaction of the sec-OH group of the resulting unsatd. compd. with isocyanate Et acrylate (isocyanate equiv/OH equiv ratio = 0.1-1.0) and (b) a photopolymn. initiator generating a free radical upon active ray irradn. The title element comprises a film support laminated with the compn. The compn. shows improved photo-curing properties and thermal resistance. Thus, a photosensitive resin compn. comprised a photopolymg. compd. prep'd. by reacting a reactant of EOCN 104 (o-cresol-novolak-type epoxy resin) and acrylic acid with isocyanato Et acrylate and 2,4-diethylthioxanthone. | | | | |
| IT | 202121-81-1P, Acrylic acid-EOCN 104-isocyanatoethyl acrylate copolymer 202121-82-2P, EOCN 104-isocyanatoethyl acrylate-methacrylic acid copolymer | | | | |
| | RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) | | | | |
| | (photoresist compn. contg. polyurethane novolak epoxy resin) | | | | |
| RN | 202121-81-1 CAPLUS | | | | |
| CN | 2-Propenoic acid, polymer with EOCN 104 and 2-isocyanatoethyl 2-propenoate (9CI) (CA INDEX NAME) | | | | |

CM 1

CRN 70903-88-7

CMF Unspecified

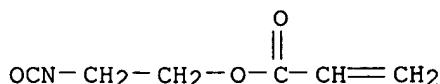
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 13641-96-8

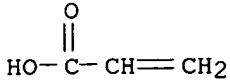
CMF C6 H7 N O3



CM 3

CRN 79-10-7

CMF C3 H4 O2



RN 202121-82-2 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with EOCN 104 and 2-isocyanatoethyl 2-propenoate (9CI) (CA INDEX NAME)

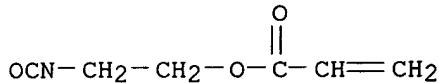
CM 1

CRN 70903-88-7
 CMF Unspecified
 CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

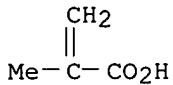
CM 2

CRN 13641-96-8
 CMF C6 H7 N O3



CM 3

CRN 79-41-4
 CMF C4 H6 O2



L60 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS
 AN 1992:140142 CAPLUS
 DN 116:140142
 TI Alkali-developable photosensitive resist compositions
 IN Iwaya, Yoshiaki
 PA Unitika Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | JP 03265860 | A2 | 19911126 | JP 1990-67956 | 19900315 |
| AB | The compns. consist of (a) 100 parts photopolymg. unsatd. copolymers consisting of repeating units I and II in (9-1):(1-9) mol ratio [R1-3 = H, C1-5-alkyl, halo; X = dicarboxylic acid minus a carboxylic group; A = (meth)acryloyl], (b) 5-100 parts epoxy compd., and (c) 0.1-30 parts photopolymn. initiator or sensitizer. These compns., mainly for prepn. of protective mask in fabrication of printed circuits and for many other | | | | |

purposes, provide resists with high resistance to chems., high insulation, high resistance to solder bath, and mech. strength, can be further cured by heat.

IT 139412-76-3 139556-84-6

RL: USES (Uses)

(alkali-developable photoresists contg.)

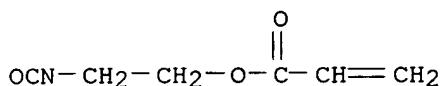
RN 139412-76-3 CAPLUS

CN 2-Propenoic acid, 2-isocyanatoethyl ester, polymer with formaldehyde, 2,5-furandione and phenol (9CI) (CA INDEX NAME)

CM 1

CRN 13641-96-8

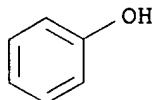
CMF C6 H7 N O3



CM 2

CRN 108-95-2

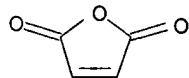
CMF C6 H6 O



CM 3

CRN 108-31-6

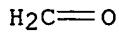
CMF C4 H2 O3



CM 4

CRN 50-00-0

CMF C H2 O

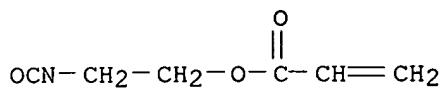


RN 139556-84-6 CAPLUS

CN 2-Propenoic acid, 2-isocyanatoethyl ester, polymer with formaldehyde, phenol and tetrahydro-1,3-isobenzofurandione (9CI) (CA INDEX NAME)

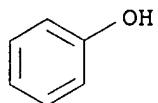
CM 1

CRN 13641-96-8
CMF C6 H7 N O3



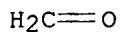
CM 2

CRN 108-95-2
CMF C6 H6 O



CM 3

CRN 50-00-0
CMF C H2 O

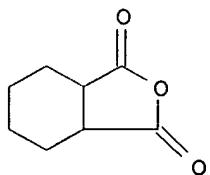


CM 4

CRN 26266-63-7
CMF C8 H8 O3
CCI IDS
CDES 8:ID

CM 5

CRN 85-42-7
CMF C8 H10 O3



=>

(FILE 'HOME' ENTERED AT 11:55:49 ON 05 NOV 2001)

FILE 'REGISTRY' ENTERED AT 11:55:58 ON 05 NOV 2001

L1 SCREEN 963 AND 970 AND 2067
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 50 S L3 SAM
L5 3 S L4 AND 1/NC
L6 45 S METHACRYLOYLOXYETHYL ISOCYANATE
L7 1 S L6 AND 1/NC

FILE 'CAPLUS' ENTERED AT 12:00:02 ON 05 NOV 2001

L8 28 S L7

FILE 'REGISTRY' ENTERED AT 12:10:21 ON 05 NOV 2001

L9 2779 S L3 FULL

FILE 'CAPLUS' ENTERED AT 12:10:48 ON 05 NOV 2001

L10 1337 S L9
L11 34168 S ANTIREFLECTIVE OR ANTIREFLECTION OR PHOTORESIST
L12 67 S L10 AND L11

FILE 'REGISTRY' ENTERED AT 12:12:26 ON 05 NOV 2001

FILE 'CAPLUS' ENTERED AT 12:12:29 ON 05 NOV 2001
S 88007-27-6/REG#

FILE 'REGISTRY' ENTERED AT 12:13:06 ON 05 NOV 2001
L13 1 S 88007-27-6/RN

FILE 'CAPLUS' ENTERED AT 12:13:06 ON 05 NOV 2001
L14 28 S L13
L15 2 S L11 AND L14

FILE 'REGISTRY' ENTERED AT 12:16:21 ON 05 NOV 2001

FILE 'CAPLUS' ENTERED AT 12:16:28 ON 05 NOV 2001
L16 5 S L6 AND L11

FILE 'REGISTRY' ENTERED AT 12:22:18 ON 05 NOV 2001
L17 1388 S 30674-80-7/CRN
L18 56797 S 80-62-6/CRN
L19 397 S L17 AND L18
L20 2 S L19 AND 2/NC

FILE 'CAPLUS' ENTERED AT 12:24:25 ON 05 NOV 2001
L21 4144 S RADIATION ABSORBING OR RADIATION SENSITIVE
L22 2 S L20 AND (L21 OR L11)

FILE 'REGISTRY' ENTERED AT 12:27:49 ON 05 NOV 2001
L23 20387 S 108-31-6/CRN
L24 20 S L17 AND L23

FILE 'CAPLUS' ENTERED AT 12:28:41 ON 05 NOV 2001
L25 0 S L24 AND (L21 OR L11)

FILE 'REGISTRY' ENTERED AT 12:29:28 ON 05 NOV 2001
L26 1 S L17 AND 1/NC
L27 9 S L19 AND L23

FILE 'CAPLUS' ENTERED AT 12:31:33 ON 05 NOV 2001
L28 0 S L27 AND (L21 OR L11)
 S 88007-27-6/REG#

FILE 'REGISTRY' ENTERED AT 12:32:31 ON 05 NOV 2001
L29 1 S 88007-27-6/RN

FILE 'CAPLUS' ENTERED AT 12:32:32 ON 05 NOV 2001
L30 28 S L29
L31 2 S L30 AND (L21 OR L11)

FILE 'REGISTRY' ENTERED AT 12:33:49 ON 05 NOV 2001
L32 2 S ANTHRACENYL METHACRYLATE
L33 0 S METHYL ANTHRACENYL METHACRYLATE

FILE 'REGISTRY' ENTERED AT 12:35:00 ON 05 NOV 2001
L34 SCREEN 963 AND 970 AND 2067
L35 STRUCTURE UPLOADED
L36 QUE L35 AND L34
L37 1 S L36 SAM
L38 20 S 30674-80-7/CRN AND 108-31-6/CRN
L39 397 S 30674-80-7/CRN AND 80-62-6/CRN

FILE 'CAPLUS' ENTERED AT 12:39:19 ON 05 NOV 2001
L40 0 S L38 AND (L11 OR L21)
L41 9 S L39 AND (L11 OR L21)
 S 88007-27-6/REG#

FILE 'REGISTRY' ENTERED AT 12:52:07 ON 05 NOV 2001
L42 1 S 88007-27-6/RN

FILE 'CAPLUS' ENTERED AT 12:52:07 ON 05 NOV 2001
L43 28 S L42
L44 0 S (L11 OR L21) AND L38

FILE 'REGISTRY' ENTERED AT 12:59:00 ON 05 NOV 2001
L45 0 S L38 AND 2/NC
L46 2 S L39 AND 2/NC

FILE 'CAPLUS' ENTERED AT 12:59:47 ON 05 NOV 2001
 S 100042-81-7/REG#

FILE 'REGISTRY' ENTERED AT 13:00:02 ON 05 NOV 2001
L47 1 S 100042-81-7/RN

FILE 'CAPLUS' ENTERED AT 13:00:04 ON 05 NOV 2001
L48 24 S L47
 S 167859-78-1/REG#

FILE 'REGISTRY' ENTERED AT 13:17:02 ON 05 NOV 2001
L49 1 S 167859-78-1/RN

FILE 'CAPLUS' ENTERED AT 13:17:04 ON 05 NOV 2001
L50 2 S L49

FILE 'REGISTRY' ENTERED AT 13:21:27 ON 05 NOV 2001
L51 17 S ISOCYANATOETHYL ACRYLATE
L52 1 S L51 AND 1/NC
L53 69 S 13641-96-8/CRN

FILE 'CAPLUS' ENTERED AT 13:24:08 ON 05 NOV 2001
L54 35 S L53

L55 2 S L54 AND (L11 OR L21)

FILE 'REGISTRY' ENTERED AT 13:35:29 ON 05 NOV 2001

FILE 'REGISTRY' ENTERED AT 13:36:13 ON 05 NOV 2001

L56 0 S 13641-96-4/CRN
L57 0 S 13641-96-4
L58 69 S 13641-96-8/CRN
L59 1388 S 30674-80-7/CRN

FILE 'CAPLUS' ENTERED AT 13:38:56 ON 05 NOV 2001

L60 2 S (L11 OR L21) AND L58
L61 37 S (L11 OR L21) AND L59

FILE 'REGISTRY' ENTERED AT 13:42:14 ON 05 NOV 2001

L62 7 S L58 AND (79-10-7/CRN OR 79-41-4/CRN)
L63 1 S L62 AND 2/NC
L64 290 S L59 AND (79-10-7/CRN OR 79-41-4/CRN)
L65 3 S L64 AND 2/NC

FILE 'CAPLUS' ENTERED AT 13:44:27 ON 05 NOV 2001

=> s 165
L66 7 L65

=> d 1-7 bib ab

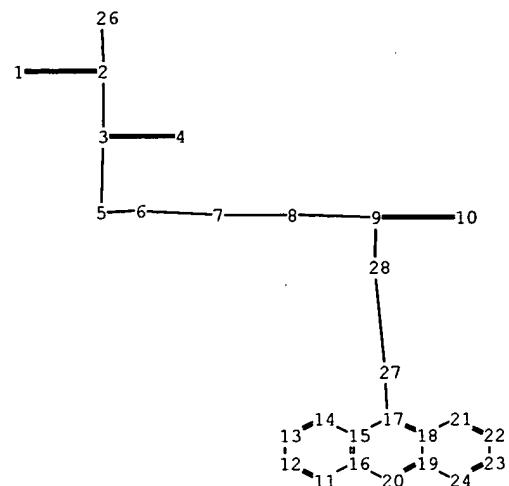
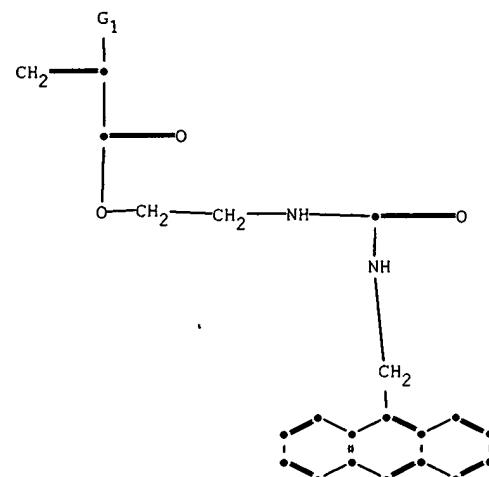
L66 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2001 ACS
AN 2000:755235 CAPLUS
DN 133:342501
TI Planographic printing plate precursor containing metal compounds, and process for producing planographic printing plates
IN Kawamura, Koichi
PA Fuji Photo Film Co., Ltd., Japan
SO Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| PI EP 1046496 | A1 | 20001025 | EP 2000-108086 | 20000425 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |

(FILE 'HOME' ENTERED AT 16:26:32 ON 05 NOV 2001)

FILE 'REGISTRY' ENTERED AT 16:26:46 ON 05 NOV 2001

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 0 S L2 SAM
L4 0 S L2 FULL
L5 0 S L1 SAM
L6 0 S L1 FULL



chain nodes :

1 2 3 4 5 6 7 8 9 10 26 27 28

ring nodes :

11 12 13 14 15 16 17 18 19 20 21 22 23 24

chain bonds :

1-2 2-3 2-26 3-4 3-5 5-6 6-7 7-8 8-9 9-10 9-28 17-27 27-28

ring bonds :

11-12 11-16 12-13 13-14 14-15 15-16 15-17 16-20 17-18 18-19
18-21 19-20 19-24 21-22 22-23 23-24

exact/norm bonds :

2-26 3-4 3-5 8-9 9-10 9-28

exact bonds :

1-2 2-3 5-6 6-7 7-8 17-27 27-28

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16 15-17 16-20 17-18 18-19
18-21 19-20 19-24 21-22 22-23 23-24

G1:H,CH3

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 26:CLASS
27:CLASS 28:CLASS

Claim 19

Uploading 237c.str

L1 STRUCTURE UPLOADED

=> s 11 full
FULL SEARCH INITIATED 19:19:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 22 TO ITERATE

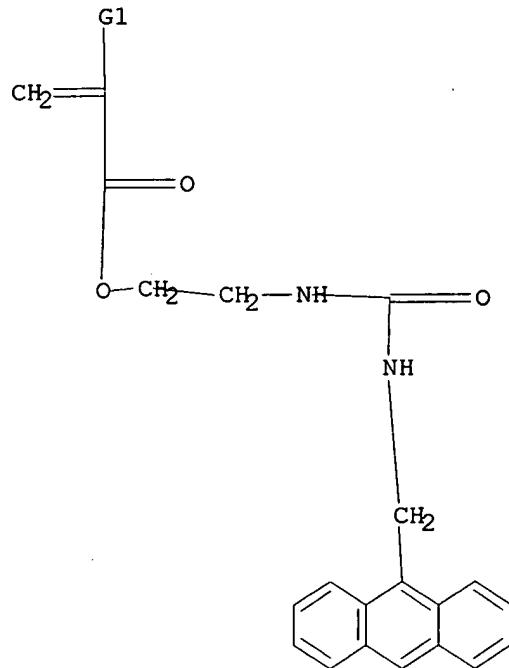
100.0% PROCESSED 22 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

Ottis

L2 0 SEA SSS FUL L1

=> d 11
L1 HAS NO ANSWERS
L1 STR



G1 H, Me

Structure attributes must be viewed using STN Express query preparation.

=>

Polymer as in cl 10 for
cl 17

0 HITS 2 M

L1 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2001 ACS
RN 254756-23-5 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 9-anthracenylmethyl ester, polymer with
2-hydroxyethyl 2-methyl-2-propenoate, 2-isocyanatoethyl
2-methyl-2-propenoate and phenylmethyl 2-methyl-2-propenoate (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
9-anthracenylmethyl 2-methyl-2-propenoate, 2-isocyanatoethyl
2-methyl-2-propenoate and phenylmethyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with
9-anthracenylmethyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate and phenylmethyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with
9-anthracenylmethyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate and 2-isocyanatoethyl 2-methyl-2-propenoate (9CI)

OTHER NAMES:

CN 9-Anthrylmethyl methacrylate-benzyl methacrylate-ethylene glycol
methacrylate-2-isocyanatoethyl methacrylate copolymer

MF (C₁₉ H₁₆ O₂ . C₁₁ H₁₂ O₂ . C₇ H₉ N O₃ . C₆ H₁₀ O₃)_x

CI PMS

PCT Polyacrylic

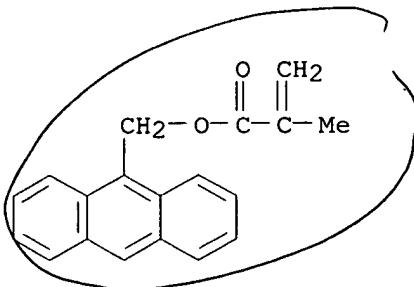
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 31645-35-9

CMF C₁₉ H₁₆ O₂

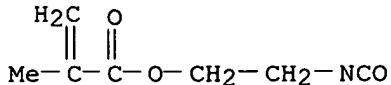


Polymer w/ monomer P

CM 2

CRN 30674-80-7

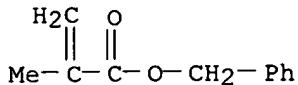
CMF C₇ H₉ N O₃



CM 3

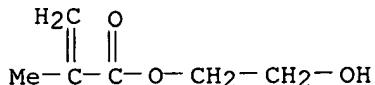
CRN 2495-37-6

CMF C₁₁ H₁₂ O₂



CM 4

CRN 868-77-9
CMF C6 H10 O3

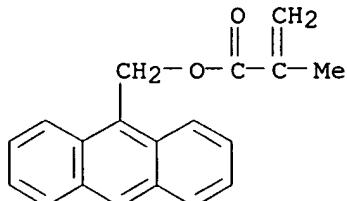


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2001 ACS
 RN 254756-22-4 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, 9-anthracenylmethyl ester, polymer with
 2-hydroxyethyl 2-methyl-2-propenoate, 2-isocyanatoethyl
 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX
 NAME)
 OTHER CA INDEX NAMES:
 CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
 9-anthracenylmethyl 2-methyl-2-propenoate, 2-isocyanatoethyl
 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI)
 CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with
 9-anthracenylmethyl 2-methyl-2-propenoate, 2-hydroxyethyl
 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI)
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 9-anthracenylmethyl 2-methyl-2-propenoate, 2-hydroxyethyl
 2-methyl-2-propenoate and 2-isocyanatoethyl 2-methyl-2-propenoate (9CI)
 MF (C19 H16 O2 . C7 H9 N O3 . C6 H10 O3 . C5 H8 O2)x
 CI PMS
 PCT Polyacrylic
 SR CA
 LC STN Files: CA, CAPLUS

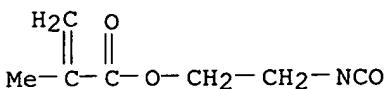
CM 1

CRN 31645-35-9
CMF C19 H16 O2



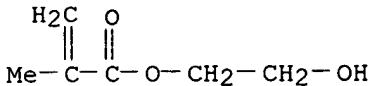
CM 2

CRN 30674-80-7
CMF C7 H9 N O3



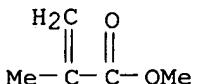
CM 3

CRN 868-77-9
CMF C6 H10 O3



CM 4

CRN 80-62-6
CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2001 ACS

RN 254756-21-3 REGISTRY

CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 9-anthracynlmethyl 2-methyl-2-propenoate, 2-isocyanatoethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with 9-anthracynlmethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 3-oxobutanoate (9CI)

CN 2-Propenoic acid, 2-methyl-, 9-anthracynlmethyl ester, polymer with 2-isocyanatoethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 3-oxobutanoate (9CI)

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 9-anthracynlmethyl 2-methyl-2-propenoate, 2-isocyanatoethyl 2-methyl-2-propenoate and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 3-oxobutanoate (9CI)

OTHER NAMES:

CN 2-Acetoacetoxyethyl methacrylate-9-anthracynlmethyl methacrylate-2-isocyanatoethyl methacrylate-methyl methacrylate copolymer

MF (C19 H16 O2 . C10 H14 O5 . C7 H9 N O3 . C5 H8 O2)x

CI PMS

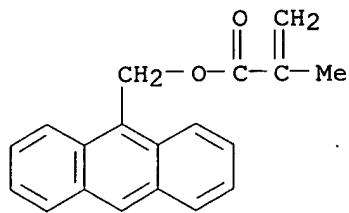
PCT Polyacrylic

SR CA

LC STN Files: CA, CAPLUS

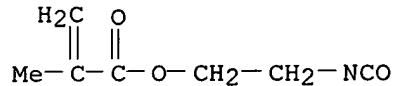
CM 1

CRN 31645-35-9
CMF C19 H16 O2



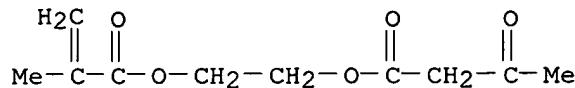
CM 2

CRN 30674-80-7
CMF C7 H9 N O3



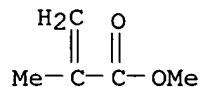
CM 3

CRN 21282-97-3
CMF C10 H14 O5



CM 4

CRN 80-62-6
CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=>

(FILE 'HOME' ENTERED AT 18:41:48 ON 08 NOV 2001)

FILE 'REGISTRY' ENTERED AT 18:41:54 ON 08 NOV 2001

L1 20429 S 108-31-6/CRN
L2 1388 S 30674-80-7/CRN
L3 20 S L1 AND L2
L4 0 S L3 AND 2/NC
L5 0 S L3 AND 3/NC

=>

Claim 10

0 hits for
copoly of CH_2CH_2 and CO_2
maleic anhydride + CO_2
 $\text{CH}_2\text{CH}_2 - \text{N}=\text{C}=\text{O}$

17 and 18

L9

3 L7 AND L8

=> d 1-3

Cl II

Claim 11

only 3①
n/m of

Cl II

having elec.
species /Pfo

L9 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2001 ACS

RN 254756-23-5 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 9-anthracynlmethyl ester, polymer with
2-hydroxyethyl 2-methyl-2-propenoate, 2-isocyanatoethyl
2-methyl-2-propenoate and phenylmethyl 2-methyl-2-propenoate (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
9-anthracynlmethyl 2-methyl-2-propenoate, 2-isocyanatoethyl
2-methyl-2-propenoate and phenylmethyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with
9-anthracynlmethyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate and phenylmethyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with
9-anthracynlmethyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate and 2-isocyanatoethyl 2-methyl-2-propenoate (9CI)

OTHER NAMES:

CN 9-Anthrylmethyl methacrylate-benzyl methacrylate-ethylene glycol
methacrylate-2-isocyanatoethyl methacrylate copolymer

MF (C₁₉ H₁₆ O₂ . C₁₁ H₁₂ O₂ . C₇ H₉ N O₃ . C₆ H₁₀ O₃)_x

CI PMS

PCT Polyacrylic

SR CA

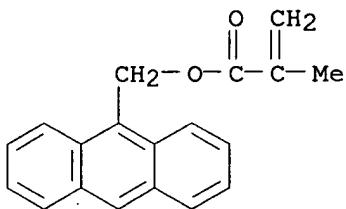
LC STN Files: CA, CAPLUS

Claim 11

CM 1

CRN 31645-35-9

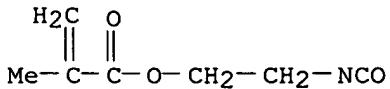
CMF C₁₉ H₁₆ O₂



CM 2

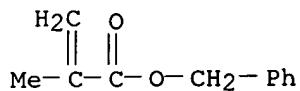
CRN 30674-80-7

CMF C₇ H₉ N O₃



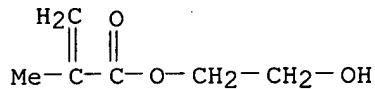
CM 3

CRN 2495-37-6
CMF C11 H12 O2



CM 4

CRN 868-77-9
CMF C6 H10 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L9 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2001 ACS

RN 254756-22-4 REGISTRY

CN 2-Propenoic acid, 2-methyl-, 9-anthracynlmethyl ester, polymer with
2-hydroxyethyl 2-methyl-2-propenoate, 2-isocyanatoethyl
2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX
NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
9-anthracynlmethyl 2-methyl-2-propenoate, 2-isocyanatoethyl
2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with
9-anthracynlmethyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI)

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
9-anthracynlmethyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate and 2-isocyanatoethyl 2-methyl-2-propenoate (9CI)

MF (C19 H16 O2 . C7 H9 N O3 . C6 H10 O3 . C5 H8 O2)x

CI PMS

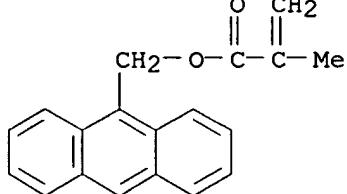
PCT Polyacrylic

SR CA

LC STN Files: CA, CAPLUS

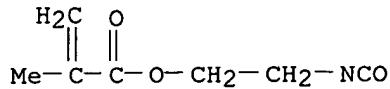
CM 1

CRN 31645-35-9
CMF C19 H16 O2



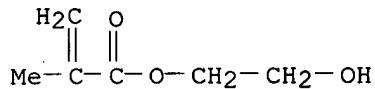
CM 2

CRN 30674-80-7
CMF C7 H9 N O3



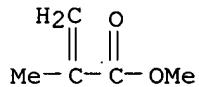
CM 3

CRN 868-77-9
CMF C6 H10 O3



CM 4

CRN 80-62-6
CMF C5 H8 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L9 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2001 ACS

RN 254756-21-3 REGISTRY

CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 9-anthracylmethyl 2-methyl-2-propenoate, 2-isocyanatoethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester, polymer with 9-anthracylmethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 3-oxobutanoate (9CI)

CN 2-Propenoic acid, 2-methyl-, 9-anthracylmethyl ester, polymer with 2-isocyanatoethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 3-oxobutanoate (9CI)

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 9-anthracylmethyl 2-methyl-2-propenoate, 2-isocyanatoethyl 2-methyl-2-propenoate and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl 3-oxobutanoate (9CI)

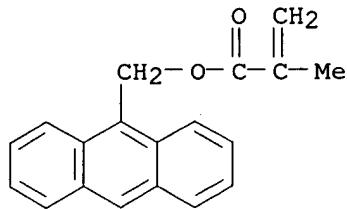
OTHER NAMES:

CN 2-Acetoacetoxyethyl methacrylate-9-anthracylmethyl methacrylate-2-

isocyanatoethyl methacrylate-methyl methacrylate copolymer
MF (C₁₉ H₁₆ O₂ . C₁₀ H₁₄ O₅ . C₇ H₉ N O₃ . C₅ H₈ O₂)_x
CI PMS
PCT Polyacrylic
SR CA
LC STN Files: CA, CAPLUS

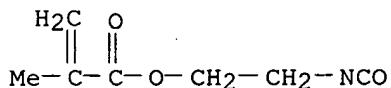
CM 1

CRN 31645-35-9
CMF C₁₉ H₁₆ O₂



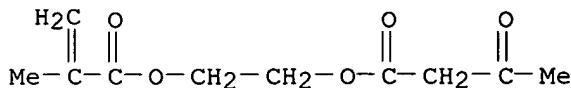
CM 2

CRN 30674-80-7
CMF C₇ H₉ N O₃



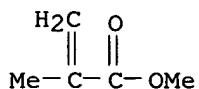
CM 3

CRN 21282-97-3
CMF C₁₀ H₁₄ O₅



CM 4

CRN 80-62-6
CMF C₅ H₈ O₂



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970 AND 2067

L10 SCREEN CREATED

=>
Uploading C:\STNEXP4\QUERIES\237p.str

L11 STRUCTURE UPLOADED

=> que L11 AND L10

L12 QUE L11 AND L10

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970 AND 2067

L13 SCREEN CREATED

=>
Uploading C:\STNEXP4\QUERIES\237q.str

L14 STRUCTURE UPLOADED

=> que L14 AND L13

L15 QUE L14 AND L13

=> d his

(FILE 'HOME' ENTERED AT 16:46:59 ON 07 NOV 2001)

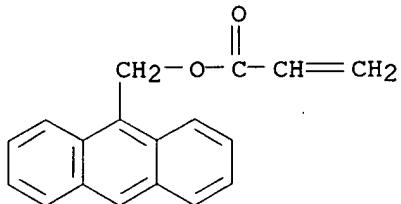
FILE 'REGISTRY' ENTERED AT 16:47:20 ON 07 NOV 2001

L1 SCREEN 970 AND 2067
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 SCREEN 970 AND 2067
L5 STRUCTURE UPLOADED
L6 QUE L5 AND L4
L7 3029 S L3 FULL
L8 131 S L6 FULL
L9 3 S L7 AND L8 ✓
L10 SCREEN 970 AND 2067
L11 STRUCTURE UPLOADED
L12 QUE L11 AND L10
L13 SCREEN 970 AND 2067
L14 STRUCTURE UPLOADED
L15 QUE L14 AND L13

L1 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2001 ACS
 RN 37806-82-9 REGISTRY
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 9-anthracynlmethyl 2-propenoate (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Propenoic acid, 9-anthracynlmethyl ester, polymer with methyl
 2-methyl-2-propenoate (9CI)
 OTHER NAMES:
 CN 9-Anthracynlmethyl acrylate-methyl methacrylate copolymer
 CN 9-Anthracynlmethyl acrylate-methyl methacrylate polymer
 MF (C₁₈ H₁₄ O₂ . C₅ H₈ O₂)_x
 CI PMS
 PCT Polyacrylic
 LC STN Files: CA, CAPLUS

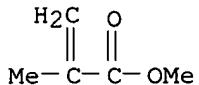
CM 1

CRN 31645-34-8
 CMF C₁₈ H₁₄ O₂



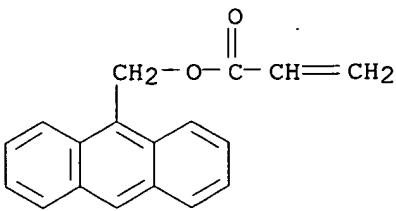
CM 2

CRN 80-62-6
 CMF C₅ H₈ O₂



3 REFERENCES IN FILE CA (1967 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2001 ACS
 RN 31645-34-8 REGISTRY
 CN 2-Propenoic acid, 9-anthracynlmethyl ester (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 9-Anthracenemethanol, acrylate
 CN Acrylic acid, 9-anthracynlmethyl ester (7CI, 8CI)
 OTHER NAMES:
 CN 9-Anthracynlmethyl acrylate
 CN 9-Anthracynlmethyl acrylate
 FS 3D CONCORD
 MF C₁₈ H₁₄ O₂
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, USPATFULL
 (*File contains numerically searchable property data)



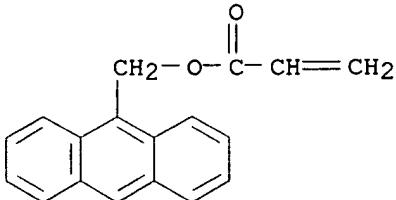
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1967 TO DATE)
 13 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2001 ACS
 RN 30175-58-7 REGISTRY
 CN 2-Propenoic acid, 9-anthracyl methyl ester, homopolymer (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Acrylic acid, 9-anthracyl methyl ester, polymers (8CI)
 OTHER NAMES:
 CN 9-Anthrylmethyl acrylate homopolymer
 MF (C₁₈ H₁₄ O₂)_x
 CI PMS
 PCT Polyacrylic
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

CM 1

CRN 31645-34-8
 CMF C₁₈ H₁₄ O₂



3 REFERENCES IN FILE CA (1967 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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